SAMEER PATWARDHAN

AUTOMATION AND ROBOTICS ENGINEER

CONTACT

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- Nigdi, Pimpri-Chinchwad
- <u>Portfolio</u>

EDUCATION

2024 - 2028
JSPM'S RAJARSHI SHAHU COLLEGE OF ENGINEERING

- B.Tech - Automation and Robotics Engineering
- 9.75

SKILLS

- Autodesk Fusion 360
- FEA
- GDnT
- C++
- Python
- AI

LANGUAGES

- English: Fluent
- Hindi: Moderate
- German: Basics
- Marathi: Fluent

PROFILE SUMMARY

Second-year Automation & Robotics engineering student with strong skills in CAD modeling, basic FEA, GD&T, and beginner Python/C++. Experienced in robotics team design workflows, mechanism development, and structural analysis. Passionate about robotics, autonomous systems and humanoid mechanisms. Actively building skills in simulation and ROS.

WORK EXPERIENCE

Team CiPHER   2025 - PRESENT
Mechanical Team Member [Design and Analysis]

- Designing parts, mechanisms, and sub-systems
- Performing basic mechanical analysis & FEA
- Making decisions on geometry, structure, and fitment
- Collaborating across mechanical, electronics, and controls teams
- Iterating designs based on testing and feedback
- Working in a robotics team has accelerated my learning far beyond classroom theory.

PROJECTS

VARUNA - Vision Guided Autonomus Underwater Vehicle

- Structural modeling, thruster layout, and pressure hull design using CAD + GD&T.

Bot Wrestling Car

- Designed a high-torque combat chassis focusing on strength, CG, and drive layout.